

NPS Rocky Mountain Network Vital Signs Objectives Workshop January 25, 26, and 27, 2005 Flathead Lake Biological Station, MT



Agenda and Approach

Overview and Goals of Meeting

This 2.5 day workshop continues the process of identifying Vital Signs for the three Montana Rocky Mountain Parks.

Our general goals and expected products are:

- 1. List of candidate Vital Signs for ROMN
- Draft objectives for candidate Vital Signs in a standard format ROMN Vital Signs Objectives database
- 3. Identify opportunities to integrate among Vital Signs to improve cost-effectiveness and usefulness of monitoring information
- 4. Estimate costs for monitoring candidate Vital Signs (likely very rough)
- 5. Prioritize candidate Vital Signs. A <u>very general</u>, first cut to guide ROMN in how to spend time on further developing candidate Vital Signs.

Logistics/travel information

The workshop is being held at the Flathead Lake Biological Station (http://www.umt.edu/biology/flbs/). Kalispell airport is 40 mi. to the N, Missoula airport is 85 mi. to the S.

Lodging – dorm style rooms with two people per room (paid for by NPS). Communal bathrooms.

Check-in – When you arrive, please park in the visitor parking area (see map at the FLBS website). Go to the G.W. Prescott Conference Center dinging area where Mike, Brent, or Billy will meet participants as they arrive at the (see map on FLBS website). They will give participants keys direct them to their rooms. Note – Mike, Brent, and Billy will arrive at Flathead Lake mid-afternoon on January 24th and stay at the Conf. Center until everyone has arrived. For anyone arriving late – they will arrange to get a key to them and direct them to their room – please let Mike know if you are arriving late.

Meals – provided in the FLBS cafeteria on Tues., Wed., and Thurs. and paid for by NPS. Schedule: breakfast (serving from 7:30 – 8:00 AM), lunch (serving from 12:30 – 1:00 PM [except on Thursday when lunch will be served from 11:30-12:00]), dinner (serving from 6:00 – 6:30 PM). No dinner on Thurs.

Note – dinner is not being served Monday January 24th so please eat before you get in (or bring food).

Alcohol – bring your own except beer and wine will be provided for the social on Tuesday.

No pets allowed please.

We will coordinate carpooling from Missoula and Kalispell – after you know your arrival and departure time, please let Mike Britten (mike_britten@nps.gov) know.

Reimbursement

Rocky Mountain Network and NPS are paying for the Workshop. Lodging and meals at the Biological Station are covered – participants don't need to worry about those. The Network will pay for travel to and from the Workshop. For non-NPS participants, please arrange and pay for your own travel. USGS participants wishing to be reimbursed for travel to and from the BioStation should contact Gay Shockley for information on arranging travel. After you have completed the trip, send a simple invoice for travel costs including your name, address and phone contact information, SSN, and the amount for to Gay Shockley, NPS-IMR-NR, 12795 W. Alameda Parkway, Lakewood, CO 80228. Please include the wording: "professional services for the Rocky Mountain Network" in the invoice.



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DRAFT Agenda

Tuesday January 25 th				
8:30 – 9:00	Workshop goals, objectives, expected products, and process	Tonnessen		
9:00 – 10:00	Introduction to FLBS and Perspectives on Aquatic Monitoring	Stanford		
10:00 - 10:15	Review NPS/ROMN Vital Signs program and planning process	Britten		
10:15 - 10:30	Break			
10:30 - 11:00	Vital Signs; implementation in ROMN	Britten		
11:00 - 11:45	Park Settings and Desired Future Conditions	Bobowski, Stops, Potter (15 min. each)		
11:45 - 12:30	Conceptual Models and Vital Sign Objectives and Evaluation Criteria	Schweiger		
12:30 - 1:30	Lunch in cafeteria (provided)			
1:30 – 1:45	Vital Signs database – using the database in workgroups	Frakes		
1:45 – 4:30	Workgroup breakouts to develop Vital Signs objectives and evaluation	Workgroups		
4:30 - 5:00	Workgroup progress reports	Workgroup leaders		
5:00 - 6:00	Social (Conference Center/dining facility)			
6:00 - 6:30	Dinner			
7:00 – 9:00	Social, continued			

Wednesday January 26 th				
8:30 – 10:30	Workgroup breakouts cont.	Workgroups		
10:30 – 11:00	Break			
11:00 – 12:30	Workgroup breakouts cont.	Workgroups		
12:30 - 1:30	Lunch in cafeteria (provided)			
1:30 – 3:30	Workgroup reports: candidate Vital Signs described and priorities (with comments from group)	Workgroup participants		
3:30 - 4:00	Break			
4:00 - 5:00	Workgroup breakouts			

Thursday January 27 th					
8:30 – 9:00	Candidate Vital Signs; Within and Across group lists	Frakes			
9:00 – 10:30	Integrating among Vital Signs; summary and discussion	Tonnessen			
10:30 - 11:00	Break				
11:00 – 11:15	Workshop evaluation and suggestions for Co. workshop				
11:15 – 11:30	Wrap-up and next steps	Tonnessen/Britten			
11:30 – 12:00	Lunch				



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Materials

The following materials will be available on the ROMN website (http://www1.nature.nps.gov/im/units/romn/Pages/VitalSignsWorkShop.htm) or will be provided at the beginning of the workshop:

- 1) Agenda
- 2) ROMN Phase 1 Draft Report (one copy per workgroup, also available on workgroup computers)
- 3) Presentation Handouts
- 4) VS Nomination form (includes VS framework and list)
- 5) Workshop Logistics

Participants and Suggested Workgroup Structure

<u>First</u>	<u>Last</u>	Agency/org.	Possible Workgroup
Don	Campbell	USGS-WRD	Air, Climate, Eco Processes
Dan	Fagre	USGS-BRD-Glacier Field Station	Air, Climate, Eco Processes
Brent	Frakes	NPS-Rocky Mountain Network	Air, Climate, Eco Processes
Andy	Hansen	MSU and ROMN Science Panel	Air, Climate, Eco Processes
Art	McKee	FLBS	Air, Climate, Eco Processes
		NPS - RM CESU and ROMN Tech. Comm. and Board of	
Kathy	Tonnessen	Directors	Air, Climate, Eco Processes
Laigh	\\/allina	NPS - Crown of Continent Research Learning Center and ROMN Tech. Comm.	Air Climata Faa Braassas
Leigh Mark	Welling Williams	CU-Boulder and ROMN Science Panel	Air, Climate, Eco Processes
Bob	Bramblett	USFS	Air, Climate, Eco Processes
Bonnie	Ellis	FLBS	Aquatic Aquatic
Paul	Hansen	Bitteroot Consulting	Aquatic
Alisa	Mast	USGS-WRD	Aquatic
Christina	Relyea	FLBS	Aquatic
Billy	Schweiger	NPS-Rocky Mountain Network	Aquatic
Jack	Stanford	FLBS	Aquatic
Bob	Stottlemeyer	USGS-BRD-Fort Collins Science Center	Aquatic
Ben	Bobowski	NPS – Grant-Kohrs Ranch NHS and ROMN Tech. Comm.	Terrestrial
Jane	Bock	CU-Boulder	Terrestrial
Tara	Carolin	NPS-Glacier NP	Terrestrial
Cathie	Jean	NPS-Greater Yellowstone Network	Terrestrial
Bob	Keane	USFS-Fire Sci. Lab	Terrestrial
Carl	Key	USGS-BRD-Glacier Field Station	Terrestrial
Dan	Manier	CSU-ROMN Research Assoc. and Rocky Mountain Network	Terrestrial
Cyndi	Smith	Parks Canada-Waterton NP	Terrestrial
Steve	Gniadek	NPS-Glacier NP	Wildlife
Carl	Bock	CU-Boulder	Wildlife
Mike	Britten	NPS-Rocky Mountain Network	Wildlife
Steve	Corn	USGS-BRD-Aldo Leopold Inst.	Wildlife
Kim	Keating	USGS-BRD-Rocky Mountain Science Center	Wildlife
Jack	Potter	NPS-Glacier NP and Tech. Comm.	Wildlife
John	Waller	NPS-Glacier NP	Wildlife
Gerry	Wright	Univ. of Idaho and Rocky Mountain Network Science Panel	Wildlife
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